

Highly active Pd-Ni nanocatalysts supported on multicharged polymer matrix

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Abstract

© The Royal Society of Chemistry 2017. In this article, we report the synthesis of mono- and bimetallic Pd-Ni nanocomposites supported on a multicharged polymeric matrix for catalytic applications. The morphology and catalytic properties of the composites depend on the Pd-Ni ratio. In the Suzuki-Miyaura coupling reaction, the composite with an equal amount of palladium and nickel is the most active and the reaction occurs within six hours in water at room temperature.

<http://dx.doi.org/10.1039/c7cy01797a>

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